

NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL

_S

Ps

NP

NP

\$G

\$O

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_L

```

NN      NN      MM      MM      LL      ZZZZZZZZZZ      EEEEEEEEEEE      RRRRRRRR      000000
NN      NN      MM      MM      LL      ZZZZZZZZZZ      EEEEEEEEEEE      RRRRRRRR      000000
NN      NN      MMMM     MMMM     LL      ZZ      EE      RR      RR      00      00
NN      NN      MMMM     MMMM     LL      ZZ      EE      RR      RR      00      00
NNNN     NN      MM      MM      LL      ZZ      EE      RR      RR      00      00
NNNN     NN      MM      MM      LL      ZZ      EE      RR      RR      00      00
NN      NN      NN      MM      MM      LL      ZZ      EE      RRRRRRRR      00      00
NN      NN      NN      MM      MM      LL      ZZ      EEEEEEEEE     RRRRRRRR      00      00
NN      NN      NN      MM      MM      LL      ZZ      EE      RR      RR      00      00
NN      NNNN     MM      MM      LL      ZZ      EE      RR      RR      00      00
NN      NNNN     MM      MM      LL      ZZ      EE      RR      RR      00      00
NN      NN      MM      MM      LL      ZZ      EE      RR      RR      00      00
NN      NN      MM      MM      LLLLLLLLLL  ZZZZZZZZZZ      EEEEEEEEEEE      RR      RR      000000
NN      NN      MM      MM      LLLLLLLLLL  ZZZZZZZZZZ      EEEEEEEEEEE      RR      RR      000000

```

```

LL      IIIIII     SSSSSSSS
LL      IIIIII     SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII     SSSSSSSS
LLLLLLLLLL  IIIIII     SSSSSSSS

```



```
0001 0 %TITLE 'NML ZERO counters module'
0002 0 MODULE NML$ZERO (
0003 0     LANGUAGE (BLISS32),
0004 0     ADDRESSING_MODE (EXTERNAL=GENERAL),
0005 0     ADDRESSING_MODE (NONEXTERNAL=GENERAL),
0006 0     IDENT = 'V04-000'
0007 0 ) =
0008 1 BEGIN
0009 1
0010 1 *****
0011 1 *
0012 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0013 1 *   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0014 1 *   ALL RIGHTS RESERVED.
0015 1 *
0016 1 *   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
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0018 1 *   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0019 1 *   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
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0024 1 *   AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0025 1 *   CORPORATION.
0026 1 *
0027 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0028 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1
0034 1 ++
0035 1 FACILITY: DECnet-VAX Network Management Listener
0036 1
0037 1 ABSTRACT:
0038 1
0039 1     These routines return volatile data base information in response to
0040 1     an NCP ZERO command message.
0041 1
0042 1 ENVIRONMENT: VAX/VMS Operating System
0043 1
0044 1 AUTHOR: Kathy Perko
0045 1
0046 1 CREATION DATE: 30-Aug-1982
0047 1
0048 1 MODIFIED BY:
0049 1     V03-003 MKP0003 Kathy Perko 6-Jan-1983
0050 1     Add dummy table entry for X25 Access Module entity.
0051 1
0052 1     V03-002 MKP0002 Kathy Perko 24-June-1983
0053 1     Add dummy table entries for Service Adjacency entity and
0054 1     NI Configurator entity.
0055 1
0056 1     V03-001 MKP0001 Kathy Perko 9-Oct-1982
0057 1     Add Area entity, and null entries for adjacent node
```

NML\$ZERO
V04-000

NML ZERO counters module

J 3
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 2 (1)

: 58
: 59
: 60

0058 1 !
0059 1 !
0060 1 !--

entities (which are read only) to tables.

NML\$ZERO
V04-000

NML ZERO counters module
Declarations

K 3
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VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 3 (2)

```

: 62      0061 1 %SBTTL 'Declarations'
: 63      0062 1
: 64      0063 1
: 65      0064 1  TABLE OF CONTENTS:
: 66      0065 1
: 67      0066 1
: 68      0067 1 FORWARD ROUTINE
: 69      0068 1     NML$ZERO           : NOVALUE,
: 70      0069 1     NML_CALL_ZERO      : NOVALUE,
: 71      0070 1     NML_CALL_ZERO_NODE : NOVALUE,
: 72      0071 1     NML_ZEROPLURAL     : NOVALUE,
: 73      0072 1     NML_ZERO_KNOWN     : NOVALUE,
: 74      0073 1     NML_ZERO_KNONODES  : NOVALUE,
: 75      0074 1     NML_ZERO_ENTITY    : NOVALUE,
: 76      0075 1     NML_ZERO_NODE      : NOVALUE,
: 77      0076 1     NML_ZERO_REMOTES   : NOVALUE;
: 78      0077 1
: 79      0078 1
: 80      0079 1  INCLUDE FILES:
: 81      0080 1
: 82      0081 1
: 83      0082 1  LIBRARY 'LIB$:NMLLIB.L32';
: 84      0083 1  LIBRARY 'SHRLIB$:NMLIBRY.L32';
: 85      0084 1  LIBRARY 'SYSS$LIBRARY:STARLET.L32';
: 86      0085 1
: 87      0086 1
: 88      0087 1  OWN STORAGE:
: 89      0088 1
: 90      0089 1
: 91      0090 1  OWN
: 92      0091 1     NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLN];
: 93      0092 1  BIND
: 94      0093 1     NML$Q_P2BFDSC = UPLIT (NML$K_P2BUFLN, NML$T_P2BUFFER) : DESCRIPTOR;
: 95      0094 1
: 96      0095 1  OWN
: 97      0096 1     NML$T_ENTBUFFER : VECTOR [32],
: 98      0097 1     NML$Q_ENTBFDSC  : DESCRIPTOR
: 99      0098 1     INITIAL (0, NML$T_ENTBUFFER);
100      0099 1
101      0100 1
102      0101 1  EXTERNAL REFERENCES:
103      0102 1
104      0103 1
105      0104 1  $NML_EXTDEF;
106      0105 1
107      0106 1  EXTERNAL ROUTINE
108      0107 1     LIB$ESTABLISH : ADDRESSING_MODE (GENERAL),
109      0108 1     LIB$REVERT   : ADDRESSING_MODE (GENERAL),
110      0109 1     NML$BLD_REPLY,
111      0110 1     NML$BLDP2,
112      0111 1     NML$ERROR_1,
113      0112 1     NML$ERROR_2,
114      0113 1     NML$GETEXEID,
115      0114 1     NML$GETINFTABS,
116      0115 1     NML$GET_ENTITY_IDS,
117      0116 1     NML$MAINHANDLER,
: 118      0117 1     NML$NETQIO,
```

NML\$ZERO
V04-000

NML ZERO counters module
Declarations

: 119
: 120

0118 1 NML\$SEND;
0119 1

L³
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VM\$MASTER:[NML.SRC]NMLZERO.B32;1 Page 4 (2)

NML\$
V04-


```
122 0120 1 |
123 0121 1 | Macro to build dispatch table for an entity.
124 0122 1 |
125 0123 1 | MACRO $TAB (TAB,
126 0124 1 |     DISPATCH_RTN,
127 M 0125 1 |     ZERO_RTN,     ZERO_KNO_RTN) =
128 M 0126 1 |
129 M 0127 1 |     OWN TAB : BBLOCK [%LENGTH * 4] INITIAL (
130 M 0128 1 |     $PIC (DISPATCH_RTN, TAB),
131 M 0129 1 |     $PIC (ZERO_RTN, TAB),
132 M 0130 1 |     $PIC (ZERO_KNO_RTN, TAB))
133 0131 1 |     %,
134 0132 1 |
135 M 0133 1 |     $PIC (ADDR, TAB) =
136 M 0134 1 |         %IF %IDENTICAL (ADDR, 0)
137 M 0135 1 |             %THEN LONG (0)
138 M 0136 1 |             %ELSE LONG (%NAME (ADDR) - %NAME (TAB))
139 M 0137 1 |             %FI
140 0138 1 |     %;
141 0139 1 |
142 0140 1 |
143 0141 1 |
144 0142 1 | Dispatch tables. There is one table for each internal NML entity (NML
145 0143 1 | internal entities are broken down more than NICE entities). The table
146 0144 1 | specifies the following information about the entity:
147 0145 1 |     The address of the dispatch routine in this module for the entity.
148 0146 1 |     The dispatch routines vary depending on the different
149 0147 1 |     formats the entities can have.
150 0148 1 |     The addresses of the routines which perform the requested change:
151 0149 1 |     - Zero single entity
152 0150 1 |     - Zero known entities
153 0151 1 |
154 P 0152 1 | $TAB (LINE TAB,                                ! NML$C_LINE
155 P 0153 1 |     NML_CALL_ZERO,
156 0154 1 |     NML_ZERO_ENTITY,     NML_ZERO_KNOWN);
157 0155 1 |
158 0156 1 | BIND LOGGING_TAB = UPLIT (0);
159 0157 1 |
160 0158 1 | BIND SINK_TAB = UPLIT (0);
161 0159 1 |
162 P 0160 1 | $TAB (NODE TAB,                                ! NML$C_NODE
163 P 0161 1 |     NML_CALL_ZERO_NODE,
164 0162 1 |     NML_ZERO_NODE,     NML_ZEROKNONODES);
165 0163 1 |
166 P 0164 1 | $TAB (NODEBYNAME TAB,                        ! NML$C_NODEBYNAME
167 P 0165 1 |     NML_CALL_ZERO_NODE,
168 0166 1 |     NML_ZERO_NODE,     NML_ZEROKNONODES);
169 0167 1 |
170 0168 1 | BIND LOOPNODE_TAB = UPLIT (0);
171 0169 1 |
172 0170 1 | BIND ADJACENT_NODE_TAB = UPLIT (0);
173 0171 1 |
174 P 0172 1 | $TAB (EXECUTOR TAB,                            ! NML$C_EXECUTOR
175 P 0173 1 |     NML_CALL_ZERO_NODE,
176 0174 1 |     NML_ZERO_NODE,     NML_ZEROKNONODES);
177 0175 1 |
178 0176 1 | BIND OBJECT_TAB = UPLIT (0);
```

```
179 0177 1
180 P 0178 1 $TAB (CIRCUIT_TAB, ! NML$C_CIRCUIT
181 P 0179 1 NML_CALL_ZERO,
182 0180 1 NML_ZERO_ENTITY, NML_ZERO_KNOWN);
183 0181 1
184 0182 1 BIND CIRCUIT_ADJACENT_TAB = UPLIT (0);
185 0183 1
186 0184 1 BIND CIRCUIT_ADJ_SRV_TAB = UPLIT (0);
187 0185 1
188 0186 1 BIND AREA_TAB = UPLIT (0);
189 0187 1
190 0188 1 BIND X25_ACCESS_TAB = UPLIT (0);
191 0189 1
192 0190 1 BIND PROT_NET_TAB = UPLIT (0);
193 0191 1
194 P 0192 1 $TAB (PROT_DTE_TAB, ! NML$C_PROT_DTE
195 P 0193 1 NML_CALL_ZERO,
196 0194 1 NML_ZERO_ENTITY, NML_ZERO_KNOWN);
197 0195 1
198 0196 1 BIND PROT_GRP_TAB = UPLIT (0);
199 0197 1
200 P 0198 1 $TAB (X25_SERV_TAB, ! NML$C_X25_SERV
201 P 0199 1 NML_CALL_ZERO,
202 0200 1 NML_ZERO_ENTITY, 0);
203 0201 1
204 0202 1 BIND X25_SERV_DEST_TAB = UPLIT (0);
205 0203 1
206 0204 1 BIND TRACE_TAB = UPLIT (0);
207 0205 1
208 0206 1 BIND TRACEPNT_TAB = UPLIT (0);
209 0207 1
210 P 0208 1 $TAB (X29_SERV_TAB, ! NML$C_X29_SERV
211 P 0209 1 NML_CALL_ZERO,
212 0210 1 NML_ZERO_ENTITY, 0);
213 0211 1
214 0212 1 BIND X29_SERV_DEST_TAB = UPLIT (0);
215 0213 1
216 0214 1 BIND NI_CONFIG_TAB = UPLIT (0);
217 0215 1
218 0216 1 BIND LINK_TAB = UPLIT (0);
219 0217 1
220 0218 1
221 0219 1
222 0220 1 ! Table table. Contains pointers to Dispatch tables for NML entities.
223 0221 1 ! Indexed by NML$C_entity definitions.
224 0222 1
225 0223 1 OWN TABLE_TAB : VECTOR [NML$C_MAXENTITY] INITIAL (
226 0224 1 $PIC (LINE_TAB, TABLE_TAB),
227 0225 1 $PIC (LOGGING_TAB, TABLE_TAB),
228 0226 1 $PIC (SINK_TAB, TABLE_TAB),
229 0227 1 $PIC (NODE_TAB, TABLE_TAB),
230 0228 1 $PIC (NODEBYNAME_TAB, TABLE_TAB),
231 0229 1 $PIC (LOOPNODE_TAB, TABLE_TAB),
232 0230 1 $PIC (ADJACENT_NODE_TAB, TABLE_TAB),
233 0231 1 $PIC (EXECUTOR_TAB, TABLE_TAB),
234 0232 1 $PIC (OBJECT_TAB, TABLE_TAB),
235 0233 1 $PIC (CIRCUIT_TAB, TABLE_TAB),
```


NML\$ZERO
V04-000

NML ZERO counters module
Declarations

B 4
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 7
(3)

```
: 236      0234 1      $PIC (CIRCUIT_ADJACENT_TAB, TABLE_TAB),
: 237      0235 1      $PIC (CIRCUIT_ADJ_Srv_TAB, TABLE_TAB),
: 238      0236 1      $PIC (AREA_TAB, TABLE_TAB),
: 239      0237 1      $PIC (X25_ACCESS_TAB, TABLE_TAB),
: 240      0238 1      $PIC (PROT_NET_TAB, TABLE_TAB),
: 241      0239 1      $PIC (PROT_DTE_TAB, TABLE_TAB),
: 242      0240 1      $PIC (PROT_GRP_TAB, TABLE_TAB),
: 243      0241 1      $PIC (X25_SERV_TAB, TABLE_TAB),
: 244      0242 1      $PIC (X25_SERV_DEST_TAB, TABLE_TAB),
: 245      0243 1      $PIC (TRACE_TAB, TABLE_TAB),
: 246      0244 1      $PIC (TRACEPNT_TAB, TABLE_TAB),
: 247      0245 1      $PIC (X29_SERV_TAB, TABLE_TAB),
: 248      0246 1      $PIC (X29_SERV_DEST_TAB, TABLE_TAB),
: 249      0247 1      $PIC (NI_CONFIG_TAB, TABLE_TAB),
: 250      0248 1      $PIC (LINK_TAB, TABLE_TAB);
```



```
252 0249 1 %SBTTL 'NML$ZERO Zero counters main routine'
253 0250 1 GLOBAL ROUTINE NML$ZERO : NOVALUE =
254 0251 1
255 0252 1 !++
256 0253 1 FUNCTIONAL DESCRIPTION:
257 0254 1
258 0255 1 This routine dispatches the zero function to the proper routine
259 0256 1 according to the entity type.
260 0257 1
261 0258 1 IMPLICIT INPUTS:
262 0259 1
263 0260 1 NML$GB_OPTIONS contains the option byte parsed from the NICE message.
264 0261 1 NML$GB_ENTITY_CODE contains the entity code.
265 0262 1
266 0263 1 !--
267 0264 1
268 0265 2 BEGIN
269 0266 2
270 0267 2 MAP
271 0268 2 NML$GB_ENTITY_FORMAT : BYTE SIGNED,
272 0269 2 NML$GB_OPTIONS : BBLOCK [1];
273 0270 2
274 0271 2 LOCAL
275 0272 2 ZERO_TABLE : REF BBLOCK,      ! Dispatch table reference
276 0273 2 RTN_ADDR,                  ! Temporary routine address
277 0274 2 PARSE_TAB,                ! Address of NICE message parsing
278 0275 2                             ! table.
279 0276 2 ZERO_RTN;                  ! Address of routine to perform
280 0277 2                             ! zero requested by NICE
281 0278 2                             ! message.
282 0279 2
283 0280 2
284 0281 2 !
285 0282 2 Get address of entity's dispatch table. The addresses are stored as offsets
286 0283 2 to make NML$SHR PIC. Change the offset into a useable address.
287 0284 2
288 0285 2 ZERO_TABLE = .TABLE_TAB [.NML$GL_NML_ENTITY] + TABLE_TAB;
289 0286 2 IF .ZERO_TABLE NEQA 0 THEN
290 0287 3 BEGIN
291 0288 3 RTN_ADDR = .ZERO_TABLE [ZER$DISPATCH] + .ZERO_TABLE;
292 0289 3
293 0290 3 Go to dispatch table for the entity specified in the NICE message.
294 0291 3 Get the address of the routine which performs the type of change
295 0292 3 requested.
296 0293 3
297 0294 3 IF .RTN_ADDR NEQA .ZERO_TABLE THEN
298 0295 4 BEGIN
299 0296 4
300 0297 4 Each function's portion of the entity's dispatch table contains
301 0298 4 the addresses of two zero routines. These routines do the
302 0299 4 following:
303 0300 4 - Zero a single entity
304 0301 4 - Zero known entities
305 0302 4
306 0303 4 IF .NML$GB_ENTITY_FORMAT EQL NMA$C ENT_KNO THEN
307 0304 4 ZERO_RTN = .ZERO_TABLE [ZER$KNOWN]
308 0305 4 ELSE
```


NML\$ZERO
V04-000

NML ZERO counters module
NML\$ZERO Zero counters main routine

D 4
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 9
(4)

```

309      ZERO_RTN = .ZERO_TABLE [ZER$L_ENTITY];
310
311      ! The routine addresses are stored as offsets (to make NML$HR PIC).
312      ! Make the offset into a callable routine address.
313
314      IF .ZERO_RTN NEQ 0 THEN
315      BEGIN
316      ZERO_RTN = .ZERO_RTN + .ZERO_TABLE;
317      ! Call change routine.
318      (.RTN_ADDR) (.NML$GL_NML_ENTITY,
319      .ZERO_RTN);
320      END
321      ELSE
322      NML$ERROR_1 (NMA$C_STS_FUN);
323      END
324      ELSE
325      NML$ERROR_1 (NMA$C_STS_FUN);
326      END
327      ELSE
328      NML$ERROR_1 (NMA$C_STS_FUN);
329      END
330      END;
331      ! End of NML$ZERO
```

.TITLE NML\$ZERO NML ZERO counters module
.IDENT \V04-000\

.PSECT \$SPLITS\$,NOWRT,NOEXE,2

```

00000068 00000 P.AAA: .LONG 104
00000000 00004 .ADDRESS NML$T_P2BUFFER
00000000 00008 P.AAB: .LONG 0
00000000 0000C P.AAC: .LONG 0
00000000 00010 P.AAD: .LONG 0
00000000 00014 P.AAE: .LONG 0
00000000 00018 P.AAF: .LONG 0
00000000 0001C P.AAG: .LONG 0
00000000 00020 P.AAH: .LONG 0
00000000 00024 P.AAI: .LONG 0
00000000 00028 P.AAJ: .LONG 0
00000000 0002C P.AAK: .LONG 0
00000000 00030 P.AAL: .LONG 0
00000000 00034 P.AAM: .LONG 0
00000000 00038 P.AAN: .LONG 0
00000000 0003C P.AAO: .LONG 0
00000000 00040 P.AAP: .LONG 0
00000000 00044 P.AAQ: .LONG 0
00000000 00048 P.AAR: .LONG 0
```

.PSECT \$OWNS\$,NOEXE,2

```

00000 NML$T_P2BUFFER:
      .BLKB 416
001A0 NML$T_ENTBUFFER:
      .BLKB 128
00000000 00220 NML$Q_ENTBFDSC:
```



```
00000000* 00224 .LONG 0
00000000V 00228 LINE_TAB: .ADDRESS NML$T_ENTBUFFER
00000000V 0022C .LONG <NML_CALL_ZERO-LINE_TAB>
00000000V 00230 .LONG <NML_ZERO_ENTITY-LINE_TAB>
00000000V 00234 .LONG <NML_ZERO_KNOWN-LINE_TAB>
00000000V 00238 .BLKB 4
00000000V 00238 NODE_TAB: .LONG <NML_CALL_ZERO_NODE-NODE_TAB>
00000000V 0023C .LONG <NML_ZERO_NODE-NODE_TAB>
00000000V 00240 .LONG <NML_ZERO_NONNODES-NODE_TAB>
00000000V 00244 .BLKB 4
00000000V 00248 NODEBYNAME_TAB: .LONG <NML_CALL_ZERO_NODE-NODEBYNAME_TAB>
00000000V 0024C .LONG <NML_ZERO_NODE-NODEBYNAME_TAB>
00000000V 00250 .LONG <NML_ZERO_NONNODES-NODEBYNAME_TAB>
00000000V 00254 .BLKB 4
00000000V 00258 EXECUTOR_TAB: .LONG <NML_CALL_ZERO_NODE-EXECUTOR_TAB>
00000000V 0025C .LONG <NML_ZERO_NODE-EXECUTOR_TAB>
00000000V 00260 .LONG <NML_ZERO_NONNODES-EXECUTOR_TAB>
00000000V 00264 .BLKB 4
00000000V 00268 CIRCUIT_TAB: .LONG <NML_CALL_ZERO-CIRCUIT_TAB>
00000000V 0026C .LONG <NML_ZERO_ENTITY-CIRCUIT_TAB>
00000000V 00270 .LONG <NML_ZERO_KNOWN-CIRCUIT_TAB>
00000000V 00274 .BLKB 4
00000000V 00278 PROT_DTE_TAB: .LONG <NML_CALL_ZERO-PROT_DTE_TAB>
00000000V 0027C .LONG <NML_ZERO_ENTITY-PROT_DTE_TAB>
00000000V 00280 .LONG <NML_ZERO_KNOWN-PROT_DTE_TAB>
00000000V 00284 .BLKB 4
00000000V 00288 X25_SERV_TAB: .LONG <NML_CALL_ZERO-X25_SERV_TAB>
00000000V 0028C .LONG <NML_ZERO_ENTITY-X25_SERV_TAB>
00000000 00290 .LONG 0
00000000 00294 .BLKB 4
00000000V 00298 X29_SERV_TAB: .LONG <NML_CALL_ZERO-X29_SERV_TAB>
00000000V 0029C .LONG <NML_ZERO_ENTITY-X29_SERV_TAB>
00000000 002A0 .LONG 0
00000000 002A4 .BLKB 4
00000000* 002A8 TABLE_TAB: .LONG <LINE_TAB-TABLE_TAB>
00000000* 002AC .LONG <LOGGING_TAB-TABLE_TAB>
00000000* 002B0 .LONG <SINK_TAB-TABLE_TAB>
00000000* 002B4 .LONG <NODE_TAB-TABLE_TAB>
00000000* 002B8 .LONG <NODEBYNAME_TAB-TABLE_TAB>
00000000* 002BC .LONG <LOOPNODE_TAB-TABLE_TAB>
00000000* 002C0 .LONG <ADJACENT_NODE_TAB-TABLE_TAB>
00000000* 002C4 .LONG <EXECUTOR_TAB-TABLE_TAB>
00000000* 002C8 .LONG <OBJECT_TAB-TABLE_TAB>
00000000* 002CC .LONG <CIRCUIT_TAB-TABLE_TAB>
00000000* 002D0 .LONG <CIRCUIT_ADJACENT_TAB-TABLE_TAB>
00000000* 002D4 .LONG <CIRCUIT_ADJ_SRV_TAB-TABLE_TAB>
00000000* 002D8 .LONG <AREA_TAB-TABLE_TAB>
00000000* 002DC .LONG <X25_ACCESS_TAB-TABLE_TAB>
```



```
00000000* 002E0      .LONG    <PROT_NET_TAB-TABLE_TAB>
00000000* 002E4      .LONG    <PROT_DTE_TAB-TABLE_TAB>
00000000* 002E8      .LONG    <PROT_GRP_TAB-TABLE_TAB>
00000000* 002EC      .LONG    <X25_SERV_TAB-TABLE_TAB>
00000000* 002F0      .LONG    <X25_SERV_DEST_TAB-TABLE_TAB>
00000000* 002F4      .LONG    <TRACE_TAB-TABLE_TAB>
00000000* 002F8      .LONG    <TRACEPNT_TAB-TABLE_TAB>
00000000* 002FC      .LONG    <X29_SERV_TAB-TABLE_TAB>
00000000* 00300      .LONG    <X29_SERV_DEST_TAB-TABLE_TAB>
00000000* 00304      .LONG    <NI_CONFIG_TAB-TABLE_TAB>
00000000* 00308      .LONG    <LINK_TAB-TABLE_TAB>
0030C      .BLKB      4
```

```
NML$Q P2BFDSC=      P.AAA
LOGGING_TAB=        P.AAB
SINK_TAB=            P.AAC
LOOPNODE_TAB=       P.AAD
ADJACENT_NODE_TAB=  P.AAE
OBJECT_TAB=          P.AAF
CIRCUIT_ADJACENT_TAB=
                    P.AAG
CIRCUIT_ADJ_SRV_TAB=P.AAH
AREA_TAB=            P.AAI
X25_ACCESS_TAB=      P.AAJ
PROT_NET_TAB=        P.AAK
PROT_GRP_TAB=        P.AAL
X25_SERV_DEST_TAB=   P.AAM
TRACE_TAB=           P.AAN
TRACEPNT_TAB=        P.AAO
X29_SERV_DEST_TAB=   P.AAP
NI_CONFIG_TAB=       P.AAQ
LINK_TAB=            P.AAR
.EXTRN NML$GB_EVTSRCTYP
.EXTRN NML$GQ_EVTSRCDSC
.EXTRN NML$GW_EVTCLASS
.EXTRN NML$GB_EVTMSKTYP
.EXTRN NML$GQ_EVTMSKDSC
.EXTRN NML$GW_EVTSNKADR
.EXTRN NML$GW_ACP_CHAN
.EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
.EXTRN NML$AB_QIOBUFFER
.EXTRN NML$GQ_QIOBFDSC
.EXTRN NML$AB_EXEBUFFER
.EXTRN NML$GL_EXEDATPTR
.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVBFDSC
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINF TAB
```


			001C 00000		.EXTRN	NML\$AL_PERMINTAB	
			00 9E 00002		.EXTRN	NML\$AW_PRM_DES, NML\$GB_CMD_VER	
			00 D0 00009		.EXTRN	NML\$GB_ENTITY_CODE	
			64 9E 00010		.EXTRN	NML\$GB_ENTITY_FORMAT	
51			50 64 42 C1 00013		.EXTRN	NML\$GL_QUALIFIER_PST	
			2A 13 00018		.EXTRN	NML\$GB_QUALIFIER_FORMAT	
53			61 51 C1 0001A		.EXTRN	NML\$GB_FUNCTION	
			51 53 D1 0001E		.EXTRN	NML\$GB_INFO, NML\$GB_OPTIONS	
			21 13 00021		.EXTRN	NML\$GL_PRCODE, NML\$GL_PRS_FLGS	
	FF	8F 00000000G	00 91 00023		.EXTRN	NML\$GL_NML_ENTITY	
			06 12 0002B		.EXTRN	NML\$GQ_NETNAMDSC	
		08	A1 D0 0002D		.EXTRN	NML\$GQ_RECBFDSC	
			04 11 00031		.EXTRN	NML\$GW_PRMDESCNT	
		04	A1 D0 00033 1\$:		.EXTRN	LIB\$ESTABLISH, LIB\$REVERT	
			0B 13 00037 2\$:		.EXTRN	NML\$BLD_REPLY, NML\$BLDP2	
			51 C0 00039		.EXTRN	NML\$ERROR_1, NML\$ERROR_2	
			50 DD 0003C		.EXTRN	NML\$GETEXEID, NML\$GETINFTABS	
			52 DD 0003E		.EXTRN	NML\$GET_ENTITY_IDS	
		63	02 FB 00040		.EXTRN	NML\$MAINHANDLER	
			04 00043		.EXTRN	NML\$NETQIO, NML\$SEND	
		7E	01 CE 00044 3\$:		.PSECT	\$CODE\$,NOWRT,2	
	00000000G	00	01 FB 00047		.ENTRY	NML\$ZERO, Save R2,R3,R4	: 0250
			04 0004E		MOVAB	TABLE_TAB, R4	: :
					MOVL	NML\$GL_NML_ENTITY, R2	: 0285
					MOVAB	TABLE_TAB, R0	: :
					ADDL3	TABLE_TAB[R2], R0, ZERO_TABLE	: :
					BEQL	3\$: 0286
					ADDL3	ZERO_TABLE, (ZERO_TABLE), RTN_ADDR	: 0288
					CMPL	RTN_ADDR, ZERO_TABLE	: 0294
					BEQL	3\$: :
					CMPB	NML\$GB_ENTITY_FORMAT, #-1	: 0303
					BNEQ	1\$: :
					MOVL	8(ZERO_TABLE), ZERO_RTN	: 0304
					BRB	2\$: :
					MOVL	4(ZERO_TABLE), ZERO_RTN	: 0306
					BEQL	3\$: 0311
					ADDL2	ZERO_TABLE, ZERO_RTN	: 0313
					PUSHL	ZERO_RTN	: 0318
					PUSHL	R2	: 0317
					CALLS	#2, (RTN_ADDR)	: :
					RET		: 0311
					MNEGL	#1, -(SP)	: 0327
					CALLS	#1, NML\$ERROR_1	: :
					RET		: 0328

; Routine Size: 79 bytes, Routine Base: \$CODE\$ + 0000


```
333 0329 1 %SBTTL 'NML_CALL_ZERO Zero volatile entity parameters'
334 0330 1 ROUTINE NML_CALL_ZERO (ENTITY, ZERO_RTN): NOVALUE =
335 0331 1
336 0332 1 !++
337 0333 1 FUNCTIONAL DESCRIPTION:
338 0334 1
339 0335 1 This routine dispatches to a routine to zero the specified
340 0336 1 set of circuit counters based on the entity id format.
341 0337 1
342 0338 1 FORMAL INPUTS:
343 0339 1 ENTITY Internal NML entity code of entity to zero.
344 0340 1 ZERO_RTN Address of routine to perform zero requested
345 0341 1 by NICE message.
346 0342 1
347 0343 1 IMPLICIT INPUTS:
348 0344 1
349 0345 1 NML$GB_ENTITY_FORMAT contains the entity format code.
350 0346 1
351 0347 1 --
352 0348 1
353 0349 2 BEGIN
354 0350 2
355 0351 2 MAP
356 0352 2 NML$GB_ENTITY_FORMAT : BYTE SIGNED;
357 0353 2
358 0354 2 SELECTONEU .NML$GB_ENTITY_FORMAT OF
359 0355 2 SET
360 0356 2 [NMA$C_ENT_KNO]: ! Known
361 0357 2 NML_ZEROPLURAL (.ENTITY, ! Entity code
362 0358 2 ZERO_RTN, ! Zero routine
363 0359 2 0, ! Not used
364 0360 2 0); ! Not used
365 0361 2
366 0362 2 [1 TO 16]: ! Entity name
367 0363 2 NML_ZEROPLURAL (.ENTITY, ! Entity code
368 0364 2 ZERO_RTN, ! Zero routine
369 0365 2 .NML$GB_ENTITY_FORMAT, ! Id string length
370 0366 2 NML$AB_ENTITY_ID); ! Id string address
371 0367 2
372 0368 2 [OTHERWISE]:
373 0369 2 NML$ERROR_2 (NMA$C_STS_IDE, .NML$GB_ENTITY_CODE); ! Option error
374 0370 2 TES;
375 0371 2
376 0372 1 END; ! End of NML_CALL_ZERO
```

```
0000 00000 NML_CALL_ZERO:
FF 50 00000000G 00 98 00002 .WORD Save nothing : 0330
8F 50 91 00009 CVTBL NML$GB_ENTITY_FORMAT, R0 : 0354
04 12 0000D CMPB R0, #-1 : 0356
7E 7C 0000F BNEQ 1$ :
11 11 00011 CLRQ -(SP) : 0357
50 D5 00013 1$: BRB 2$ : 0358
TSTL R0 : 0362
```

NML\$ZERO
V04-000

NML_ZERO counters module
NML_CALL_ZERO Zero volatile entity parameters

I 4
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

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DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1

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		19	13	00015	BEQL	3\$		
	10	50	91	00017	CMPB	R0, #16		
		14	1A	0001A	BGTRU	3\$		
		00	9F	0001C	PUSHAB	NML\$AB_ENTITY_ID		0363
		50	DD	00022	PUSHL	R0		0365
	7E	AC	7D	00024	MOVQ	ENTITY, -(SP)		0363
00000000V	00	04	FB	00028	CALLS	#4, NML_ZEROPLURAL		
			04	0002F	RET			
	7E	00	9A	00030	MOVZBL	NML\$GB_ENTITY_CODE, -(SP)		0369
	7E	09	CE	00037	MNEGL	#9, -(SP)		
00000000G	00	02	FB	0003A	CALLS	#2, NML\$ERROR_2		
			04	00041	RET			0372

; Routine Size: 66 bytes, Routine Base: \$CODE\$ + 004F

NML
V04


```
378 0373 1 %SBTTL 'NML_CALL_ZERO_NODE Zero node counters'
379 0374 1 ROUTINE NML_CALL_ZERO_NODE (ENTITY, ZERO_RTN) : NOVALUE =
380 0375 1
381 0376 1 ++
382 0377 1 FUNCTIONAL DESCRIPTION:
383 0378 1
384 0379 1 This routine dispatches to a routine to zero the specified set
385 0380 1 of node counters based on the entity id format.
386 0381 1
387 0382 1 FORMAL INPUTS:
388 0383 1 ENTITY Internal NML entity code of entity to zero.
389 0384 1 ZERO_RTN Address of routine to perform zero requested
390 0385 1 by NICE message.
391 0386 1
392 0387 1 IMPLICIT INPUTS:
393 0388 1
394 0389 1 NML$GB_ENTITY_FORMAT contains the entity format code.
395 0390 1
396 0391 1 --
397 0392 1
398 0393 2 BEGIN
399 0394 2
400 0395 2 MAP
401 0396 2 NML$GB_ENTITY_FORMAT : BYTE SIGNED;
402 0397 2
403 0398 2 LOCAL
404 0399 2 EXEC_ADR;
405 0400 2
406 0401 2 EXEC_ADR = 0; ! Set exec address in case entity is NML$C_EXECUTOR.
407 0402 2 SELECTIONEU .NML$GB_ENTITY_FORMAT OF
408 0403 2 SET
409 0404 2 [NML$C_ENT_KNO]: ! Known
410 0405 2 NML_ZEROPLURAL (.ENTITY, ! No entity
411 0406 2 NML_ZEROKNONODES, ! Routine name
412 0407 2 0, ! Not used
413 0408 2 0); ! Not used
414 0409 2
415 0410 2 [NML$C_ENT_ADD]: ! Node address
416 0411 2 BEGIN
417 0412 2 IF .ENTITY EQL NML$C_EXECUTOR THEN
418 0413 2 NML_ZEROPLURAL (NML$C_EXECUTOR, ! entity = executor node
419 0414 2 NML_ZERO_NODE, ! Routine name
420 0415 2 2, ! Id string length
421 0416 2 EXEC_ADR) ! Executor node address
422 0417 2
423 0418 2 ELSE
424 0419 2 NML_ZEROPLURAL (NML$C_NODE, ! Entity code
425 0420 2 NML_ZERO_NODE, ! Routine address
426 0421 2 2, ! Id string length
427 0422 2 NML$AB_ENTITY_ID); ! Id (node address) address
428 0423 2
429 0424 2 END;
430 0425 2 [1 TO 6]: ! Node name
431 0426 2 IF .NML$GL NML_ENTITY EQL NML$C_EXECUTOR THEN
432 0427 2 NML_ZEROPLURAL (NML$C_EXECUTOR, ! No entity
433 0428 2 NML_ZERO_NODE, ! Routine address
434 0429 2 2, ! Id string length
EXEC_ADR) ! Executor node address
```

```

: 435      0430 2      ELSE
: 436      0431 2      NML_ZEROPLURAL (NML$C_NODEBYNAME, ! Entity code
: 437      0432 2      NML_ZERO_NODE, ! Routine address
: 438      0433 2      .NML$GB_ENTITY_FORMAT, ! Id (node name) length
: 439      0434 2      NML$AB_ENTITY_ID); ! Id address
: 440      0435 2
: 441      0436 2      [OTHERWISE]:
: 442      0437 2      NML$ERROR_2 (NML$C_STS_IDE, NML$C_ENT_NOD); ! Option error
: 443      0438 2      TES;
: 444      0439 2
: 445      0440 1 END;                                ! End of NML_CALL_ZERO_NODE
```

```

                                001C 00000 NML_CALL_ZERO_NODE:
                                .WORD Save R2,R3,R4
                                54 00000000G 00 9E 00002 MOVAB NML$AB_ENTITY_ID, R4 : 0374
                                53 00000000V 00 9E 00009 MOVAB NML_ZERO_NODE, R3
                                7E D4 00010 CLRL EXEC_ADR : 0401
                                52 00000000G 00 98 00012 CVTBL NML$GB_ENTITY_FORMAT, R2 : 0402
                                FF 8F 52 91 00019 CMPB R2, #-1 : 0404
                                0D 12 0001D BNEQ 1$
                                7E 7C 0001F CLRL -(SP) : 0405
                                00000000V 00 9F 00021 PUSHAB NML_ZEROKNONODES
                                04 AC DD 00027 PUSHL ENTITY
                                32 11 0002A BRB 5$
                                52 D5 0002C 1$: TSTL R2 : 0410
                                1A 12 0002E BNEQ 4$
                                07 04 AC D1 00030 CMPL ENTITY, #7 : 0412
                                0A 12 00034 BNEQ 3$
                                5E DD 00036 2$: PUSHL SP : 0413
                                02 DD 00038 PUSHL #2
                                53 DD 0003A PUSHL R3
                                07 DD 0003C PUSHL #7
                                1E 11 0003E BRB 5$
                                54 DD 00040 3$: PUSHL R4 : 0418
                                02 DD 00042 PUSHL #2
                                53 DD 00044 PUSHL R3
                                03 DD 00046 PUSHL #3
                                14 11 00048 BRB 5$
                                06 52 91 0004A 4$: CMPB R2, #6 : 0424
                                17 1A 0004D BGTRU 6$
                                07 00000000G 00 D1 0004F CMPL NML$GL_NML_ENTITY, #7 : 0425
                                DE 13 00056 BEQL 2$
                                14 BB 00058 PUSHR #^M<R2,R4> : 0433
                                53 DD 0005A PUSHL R3 : 0431
                                04 DD 0005C PUSHL #4
                                00000000V 00 04 FB 0005E 5$: CALLS #4, NML_ZEROPLURAL
                                04 00065 RET : 0425
                                7E D4 00066 6$: CLRL -(SP) : 0437
                                00000000G 00 09 CE 00068 MNEGL #9, -(SP)
                                02 FB 0006B CALLS #2, NML$ERROR_2
                                04 00072 RET : 0440
```

; Routine Size: 115 bytes, Routine Base: \$CODE\$ + 0091

NML\$ZERO
V04-000

NML_ZERO counters module
NML_CALL_ZERO_NODE Zero node counters

L 4
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

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NML
V04

```

447 0441 1 %SBTTL 'NML_ZEROPLURAL Zero plural entity counters'
448 0442 1 ROUTINE NML_ZEROPLURAL (ENTITY, RTN, PRM1, PRM2) : NOVALUE =
449 0443 1
450 0444 1 !++
451 0445 1 FUNCTIONAL DESCRIPTION:
452 0446 1
453 0447 1 This routine frames the response messages with 'more' and
454 0448 1 'done' messages and calls the specified routine.
455 0449 1
456 0450 1 FORMAL PARAMETERS:
457 0451 1
458 0452 1 ENTITY Entity Table index for the entity (NML$C_...)
459 0453 1 RTN Address of entity routine to be called.
460 0454 1 PRM1 Routine parameter value.
461 0455 1 PRM2 Routine parameter value.
462 0456 1
463 0457 1 SIDE EFFECTS:
464 0458 1
465 0459 1 A 'more' message is sent and then a 'done' message is signalled
466 0460 1 following a return or signal from the specified routine.
467 0461 1
468 0462 1 !--
469 0463 1
470 0464 2 BEGIN
471 0465 2
472 0466 2 LOCAL
473 0467 2 MSG_SIZE;
474 0468 2
475 0469 2
476 0470 2 Send success with multiple responses message.
477 0471 2
478 0472 2 NML$BLD REPLY (UPLIT(0, NMA$C_STS_MOR), MSG_SIZE); ! Build message
479 0473 2 NML$SEND (NML$AB_SNDBUFFER, .MSG_SIZE); ! Send it
480 0474 2
481 0475 2 Enable condition handler to allow done message to be sent.
482 0476 2
483 0477 2 LIB$ESTABLISH (NML$MAINHANDLER);
484 0478 2
485 0479 2 Call entity-specific routine.
486 0480 2
487 0481 2 (.RTN) (.ENTITY, .PRM1, .PRM2);
488 0482 2
489 0483 2 Signal done message.
490 0484 2
491 0485 2 LIB$REVERT (); ! Disable condition handler
492 0486 2 NML$ERROR_1 (NMA$C_STS_DON); ! Signal no more responses
493 0487 2
494 0488 1 END; ! End of NML_ZEROPLURAL
```

.PSECT \$PLITS,NOWRT,NOEXE,2

00000002 00000000 0004C P.AAS: .LONG 0, 2

;

; R

NML\$ZERO
V04-000

NML_ZERO counters module
NML_ZEROPLURAL Zero plural entity counters

N 4
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14-Sep-1984 12:50:23

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.PSECT \$CODE\$,NOWRT,2

0000 00000 NML_ZEROPLURAL:						
	5E	04	C2 00002	.WORD	Save nothing	: 0442
		5E	DD 00005	SUBL2	#4, SP	
		00	9F 00007	PUSHL	SP	: 0472
00000000G	00	00000000'	02	PUSHAB	P.AAS	
			02	CALLS	#2, NML\$BLD_REPLY	
			6E	PUSHL	MSG_SIZE	: 0473
00000000G	00	00000000G	00	PUSHAB	NML\$AB_SNDBUFFER	
			02	CALLS	#2, NML\$SEND	
00000000G	00	00000000G	00	PUSHAB	NML\$MAINHANDLER	: 0477
			01	CALLS	#1, LIB\$ESTABLISH	
	7E	0C	AC 7D 00030	MOVQ	PRM1, -(SP)	: 0481
		04	AC DD 00034	PUSHL	ENTITY	
08	BC		03	CALLS	#3, @RTN	
00000000G	00		00	CALLS	#0, LIB\$REVERT	: 0485
	7E	80	8F 98 00042	CVTBL	#-128, -(SP)	: 0486
00000000G	00		01	CALLS	#1, NML\$ERROR_1	
			04	RET		: 0488

; Routine Size: 78 bytes, Routine Base: \$CODE\$ + 0104

; 495 0489 1

```

: 497 0490 1 %SBTTL 'NML_ZERO_KNOWN Zero known entity counters'
: 498 0491 1 ROUTINE NML_ZERO_KNOWN (ENTITY, DUM1, DUM2) : NOVALUE =
: 499 0492 1
: 500 0493 1 ++
: 501 0494 1 FUNCTIONAL DESCRIPTION:
: 502 0495 1
: 503 0496 1 This routine clears the counters in the volatile data base entries
: 504 0497 1 for known entities of the type specified.
: 505 0498 1
: 506 0499 1 FORMAL PARAMETERS:
: 507 0500 1
: 508 0501 1 ENTITY Index into Entity Table for entity (NML$C_...)
: 509 0502 1 DUM1 Not used.
: 510 0503 1 DUM2 Not used.
: 511 0504 1
: 512 0505 1 SIDE EFFECTS:
: 513 0506 1
: 514 0507 1 Zero or more response messages will be sent.
: 515 0508 1
: 516 0509 1 --
: 517 0510 1
: 518 0511 2 BEGIN
: 519 0512 2
: 520 0513 2 LOCAL
: 521 0514 2 BUFEND,
: 522 0515 2 DUMDSC : REF DESCRIPTOR, ! Dummy table descriptor
: 523 0516 2 ENTLEN, ! DNA line name length
: 524 0517 2 LENGTH,
: 525 0518 2 LISDSC : DESCRIPTOR, ! List buffer descriptor
: 526 0519 2 ENTPTR, ! Pointer to entity id for response
: 527 0520 2 MSGSIZE, ! Response message size
: 528 0521 2 NFBDESC : REF DESCRIPTOR, ! Descriptor for NFB
: 529 0522 2 P2DSC : DESCRIPTOR, ! P2 buffer descriptor
: 530 0523 2 PTR,
: 531 0524 2 STATUS,
: 532 0525 2 STRTFLG;
: 533 0526 2
: 534 0527 2 ! Get a list of all entities in the volatile data base.
: 535 0528 2
: 536 0529 2 STRTFLG = FALSE;
: 537 0530 2
: 538 0531 2 WHILE NML$GET_ENTITY_IDS (.ENTITY, NMASC_ENT_KNO, 0, .STRTFLG, LISDSC) DO
: 539 0532 3 BEGIN
: 540 0533 3 STRTFLG = TRUE;
: 541 0534 3
: 542 0535 3 ! Zero counters for every entity in the list.
: 543 0536 3
: 544 0537 3 BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
: 545 0538 3 PTR = .LISDSC [DSC$A_POINTER];
: 546 0539 3
: 547 0540 3 WHILE .PTR LSSA .BUFEND DO
: 548 0541 4 BEGIN
: 549 0542 4 LENGTH = .(.PTR)<0,16>;
: 550 0543 4 PTR = .PTR + 2;
: 551 0544 4
: 552 0545 4 ! Get NFB and P2 buffer.
: 553 0546 4
```



```
: 554 0547 4 NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDS, DUMDSC, 0);
: 555 0548 4 NML$BLDP2 (.LENGTH, .PTR, -1, 0, NML$Q_P2BFDSC, P2DSC);
: 556 0549 4
: 557 0550 4 Initialize message flags and status.
: 558 0551 4
: 559 0552 4 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
: 560 0553 4 NML$AB_MSGBLOCK [MSB$B_CODE] = NML$C_STS_SUC;
: 561 0554 4
: 562 0555 4 Zero the counters for the specified entity.
: 563 0556 4
: 564 0557 4 NML$NETQIO (.NFBDS, P2DSC, 0, 0);
: 565 0558 4
: 566 0559 4 Move the entity ID into the entity buffer.
: 567 0560 4
: 568 0561 4 ENTPTR = .NML$Q_ENTBFDSC [DSC$A_POINTER];
: 569 0562 4 CH$WCHAR_A (.LENGTH, ENTPTR);
: 570 0563 4 CH$MOVE (.LENGTH, .PTR, ENTPTR);
: 571 0564 4 NML$Q_ENTBFDSC [DSC$W_LENGTH] = .LENGTH + 1;
: 572 0565 4
: 573 0566 4 Add line id to response message.
: 574 0567 4
: 575 0568 4 NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
: 576 0569 4 NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
: 577 0570 4
: 578 0571 4 Build and send the response message.
: 579 0572 4
: 580 0573 4 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 581 0574 4 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
: 582 0575 4
: 583 0576 4 PTR = .PTR + .LENGTH; ! Advance pointer
: 584 0577 3 END;
: 585 0578 2
: 586 0579 2
: 587 0580 1 END; ! End of NML_ZERO_KNOWN
```

```
OFFC 00000 NML_ZERO_KNOWN:
5B 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 0491
5E 1C C2 00009 MOVAB NML$AB_MSGBLOCK, R11
14 59 D4 0000C SUBL2 #28, SP
AE 9F 0000E 1$: CLRL STRTFLG : 0529
59 DD 00011 PUSHAB LISDSC : 0531
7E 7E D4 00013 PUSHL STRTFLG
01 CE C0015 CLRL -(SP)
04 AC DD 00018 MNEGL #1, -(SP)
00000000G 00 05 FB 0001B PUSHL ENTITY
01 50 E8 00022 CALLS #5, NML$GET_ENTITY_IDS
04 00025 BLBS R0, 2$
59 01 D0 00026 2$: RET
5A 14 AE 3C 00029 MOVL #1, STRTFLG : 0533
5A 18 AE C0 0002D MOVZWL LISDSC, BUFEND : 0537
56 18 AE D0 00031 ADDL2 LISDSC+4, BUFEND
5A 56 D1 00035 3$: MOVL LISDSC+4, PTR : 0538
CMPL PTR, BUFEND : 0540
```

NML\$ZERO
V04-000

NML_ZERO counters module
NML_ZERO_KNOWN Zero known entity counters

D 5
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

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			D4	1E	00038	BGEQU	1\$:	
	57		86	3C	0003A	MOVZWL	(PTR)+, LENGTH	:	0542
			7E	D4	0003D	CLRL	-(SP)	:	0547
		04	AE	9F	0003F	PUSHAB	DUMDSC	:	
		0C	AE	9F	00042	PUSHAB	NFBDSC	:	
			05	DD	00045	PUSHL	#5	:	
		04	AC	DD	00047	PUSHL	ENTITY	:	
00000000G	00		05	FB	0004A	CALLS	#5, NML\$GETINFTABS	:	
		0C	AE	9F	00051	PUSHAB	P2DSC	:	0548
		00000000'	00	9F	00054	PUSHAB	NML\$Q_P2BFDSC	:	
			7E	D4	0005A	CLRL	-(SP)	:	
	7E		01	CE	0005C	MNEGL	#1, -(SP)	:	
			56	DD	0005F	PUSHL	PTR	:	
			57	DD	00061	PUSHL	LENGTH	:	
00000000G	00		06	FB	00063	CALLS	#6, NML\$BLDP2	:	
			6B	D4	0006A	CLRL	NML\$AB_MSGBLOCK	:	0552
	04	AB	01	90	0006C	MOVB	#1, NML\$AB_MSGBLOCK+4	:	0553
			7E	7C	00070	CLRL	-(SP)	:	0557
		14	AE	9F	00072	PUSHAB	P2DSC	:	
		10	AE	DD	00075	PUSHL	NFBDSC	:	
00000000G	00		04	FB	00078	CALLS	#4, NML\$NETQIO	:	
	58	00000000'	00	D0	0007F	MOVL	NML\$Q_ENTBFDSC+4, ENTPTR	:	0561
	88		57	90	00086	MOVB	LENGTH, (ENTPTR)+	:	0562
	66		57	28	00089	MOVC3	LENGTH, (PTR), (ENTPTR)	:	0563
00000000' 68	57		01	A1	0008D	ADDW3	#1, LENGTH, NML\$Q_ENTBFDSC	:	0564
	68		10	88	00095	BISB2	#16, NML\$AB_MSGBLOCK	:	0568
	14	AB	00	9E	00098	MOVAB	NML\$Q_ENTBFDSC, NML\$AB_MSGBLOCK+20	:	0569
		08	AE	9F	000A0	PUSHAB	MSGSIZE	:	0573
			5B	DD	000A3	PUSHL	R11	:	
00000000G	00		02	FB	000A5	CALLS	#2, NML\$BLD_REPLY	:	
		08	AE	DD	000AC	PUSHL	MSGSIZE	:	0574
		00000000G	00	9F	000AF	PUSHAB	NML\$AB_SNDBUFFER	:	
00000000G	00		02	FB	000B5	CALLS	#2, NML\$SEND	:	
	56		57	C0	000BC	ADDL2	LENGTH, PTR	:	0576
		FF73	31	000BF	BRW	3\$:	0540
			04	000C2	RET			:	0580

; Routine Size: 195 bytes, Routine Base: \$CODE\$ + 0152


```

: 589 0581 1 %SBTTL 'NML_ZEROKNONODES Zero known node counters'
: 590 0582 1 ROUTINE NML_ZEROKNONODES (DUM0, DUM1, DUM2) : NOVALUE =
: 591 0583 1
: 592 0584 1 !++
: 593 0585 1 FUNCTIONAL DESCRIPTION:
: 594 0586 1
: 595 0587 1 This routine zeros counters for all nodes in the volatile data base.
: 596 0588 1
: 597 0589 1 FORMAL PARAMETERS:
: 598 0590 1
: 599 0591 1 DUM0 Not used.
: 600 0592 1 DUM1 Not used.
: 601 0593 1 DUM2 Not used.
: 602 0594 1
: 603 0595 1 SIDE EFFECTS:
: 604 0596 1
: 605 0597 1 Zero or more response messages will be sent as a result of
: 606 0598 1 the routines that are called.
: 607 0599 1
: 608 0600 1 !--
: 609 0601 1
: 610 0602 2 BEGIN
: 611 0603 2
: 612 0604 2 LOCAL
: 613 0605 2 EXEC_ADR: WORD;
: 614 0606 2
: 615 0607 2 Return executor node.
: 616 0608 2
: 617 0609 2 EXEC_ADR = 0;
: 618 0610 2 NML_ZERO_NODE (NML$C_EXECUTOR,
: 619 0611 2 2, EXEC_ADR); ! Id string length
: 620 0612 2 EXEC_ADR); ! Executor node address
: 621 0613 2
: 622 0614 2 Return remote nodes.
: 623 0615 2
: 624 0616 2 NML_ZEROREMOTES ();
: 625 0617 2
: 626 0618 1 END; ! End of NML_ZEROKNONODES
```

```

                                0000 00000 NML_ZEROKNONODES:
                                .WORD Save nothing
                                04 C2 00002   SUBL2 #4, SP
                                6E B4 00005   CLRW EXEC_ADR
                                5E DD 00007   PUSHL SP
                                02 DD 00009   PUSHL #2
                                07 DD 0000B   PUSHL #7
                                03 FB 0000D   CALLS #3, NML_ZERO_NODE
                                00 FB 00014   CALLS #0, NML_ZEROREMOTES
                                04 0001B   RET
                                : 0582
                                :
                                : 0609
                                : 0610
                                :
                                :
                                : 0616
                                : 0618
```

; Routine Size: 28 bytes, Routine Base: \$CODE\$ + 0215


```

: 628 0619 1 %SBTTL 'NML_ZERO_ENTITY Zero entity counters'
: 629 0620 1 ROUTINE NML_ZERO_ENTITY (ENTITY, LEN, ADR) : NOVALUE =
: 630 0621 1
: 631 0622 1 ++
: 632 0623 1 FUNCTIONAL DESCRIPTION:
: 633 0624 1
: 634 0625 1
: 635 0626 1 FORMAL PARAMETERS:
: 636 0627 1
: 637 0628 1 ENTITY Entity Table index (NML$C_...)
: 638 0629 1 LEN Length of entity id string.
: 639 0630 1 ADR Address of entity id string.
: 640 0631 1
: 641 0632 1 SIDE EFFECTS:
: 642 0633 1
: 643 0634 1 A response message will be sent.
: 644 0635 1
: 645 0636 1 --
: 646 0637 1
: 647 0638 2 BEGIN
: 648 0639 2
: 649 0640 2 LOCAL
: 650 0641 2 DUMDSC : REF DESCRIPTOR, ! Dummy table descriptor
: 651 0642 2 MSGSIZE, ! Length of response message
: 652 0643 2 NEWLEN, ! Mapped (VMS) line name length
: 653 0644 2 NFBDESC : REF DESCRIPTOR, ! NFB descriptor
: 654 0645 2 P2DSC : DESCRIPTOR; ! Descriptor for P2 buffer
: 655 0646 2
: 656 0647 2 Get NFB and P2 buffer.
: 657 0648 2
: 658 0649 2 NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDESC, DUMDSC, 0);
: 659 0650 2
: 660 0651 2 X25 and X29 Server databases have only one entry. So always do a
: 661 0652 2 wildcard zero of these databases.
: 662 0653 2
: 663 0654 2 IF .ENTITY EQL NML$C_X25_SERV OR
: 664 0655 2 .ENTITY EQL NML$C_X29_SERV THEN
: 665 0656 2 LEN = -1;
: 666 0657 2
: 667 0658 2 NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
: 668 0659 2
: 669 0660 2 Initialize message flags and status.
: 670 0661 2
: 671 0662 2 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
: 672 0663 2 NML$AB_MSGBLOCK [MSB$B_CODE] = NML$C_STS_SUC;
: 673 0664 2
: 674 0665 2 Zero the counters for the specified line.
: 675 0666 2
: 676 0667 2 NML$NETQIO (.NFBDESC, P2DSC, 0, 0);
: 677 0668 2
: 678 0669 2 Build and send the response message.
: 679 0670 2
: 680 0671 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 681 0672 2 NML$SEND (NML$AB_SNDEOFFER, .MSGSIZE);
: 682 0673 2
: 683 0674 1 END; ! End of NML_ZERO_ENTITY
```



```
0004 00000 NML_ZERO_ENTITY:
      52 00000000G 00 9E 00002      .WORD      Save R2      : 0620
      5E          14 C2 00009      MOVAB      NML$AB_MSGBLOCK, R2
          7E D4 0000C      SUBL2      #20, SP
          04 AE 9F 0000E      CLRL      -(SP)      : 0649
          0C AE 9F 00011      PUSHAB     DUMDSC
          05 DD 00014      PUSHAB     NFBDS
          04 AC DD 00016      PUSHL      #5
          05 FB 00019      PUSHL      ENTITY
          04 AC D1 00020      CALLS      #5, NML$GETINFTABS
          06 13 00024      CMPL      ENTITY, #17      : 0654
          15 04 AC D1 00026      BEQL      1$
          04 12 0002A      CMPL      ENTITY, #21      : 0655
      08 AC          01 CE 0002C 1$: MNEGL      #1, LEN      : 0656
          0C AE 9F 00030 2$: PUSHAB     P2DSC      : 0658
          00000000' 00 9F 00033      PUSHAB     NML$Q_P2BFDSC
          7E D4 00039      CLRL      -(SP)
          7E          01 CE 0003B      MNEGL      #1, -(SP)
          08 AC 7D 0003E      MOVQ      LEN, -(SP)
          00          06 FB 00042      CALLS      #6, NML$BLDP2
          04 A2          62 D4 00049      CLRL      NML$AB_MSGBLOCK      : 0662
          01 90 0004B      MOVB      #1, NML$AB_MSGBLOCK+4      : 0663
          7E 7C 0004F      CLRQ      -(SP)      : 0667
          14 AE 9F 00051      PUSHAB     P2DSC
          10 AE DD 00054      PUSHL      NFBDS
          00          04 FB 00057      CALLS      #4, NML$NETQIO
          08 AE 9F 0005E      PUSHAB     MSGSIZE      : 0671
          52 DD 00061      PUSHL      R2
          00          02 FB 00063      CALLS      #2, NML$BLD_REPLY
          08 AE DD 0006A      PUSHL      MSGSIZE      : 0672
          00000000G 00 00 9F 0006D      PUSHAB     NML$AB_SNDBUFFER
          00          02 FB 00073      CALLS      #2, NML$SEND
          04 0007A      RET      : 0674
```

; Routine Size: 123 bytes, Routine Base: \$CODE\$ + 0231

```

: 685 0675 1 %SBTTL 'NML_ZERO_NODE Zero node counters'
: 686 0676 1 ROUTINE NML_ZERO_NODE (ENTITY, LEN, ADR) : NOVALUE =
: 687 0677 1
: 688 0678 1 ++
: 689 0679 1 FUNCTIONAL DESCRIPTION:
: 690 0680 1
: 691 0681 1
: 692 0682 1 FORMAL PARAMETERS:
: 693 0683 1
: 694 0684 1 ENTITY Entity Table index (NML$C...)
: 695 0685 1 LEN Length of entity id string.
: 696 0686 1 ADR Address of entity id string.
: 697 0687 1
: 698 0688 1 SIDE EFFECTS:
: 699 0689 1
: 700 0690 1 A response message will be sent.
: 701 0691 1
: 702 0692 1 --
: 703 0693 1
: 704 0694 2 BEGIN
: 705 0695 2
: 706 0696 2 LOCAL
: 707 0697 2 MSGSIZE, ! Response message size
: 708 0698 2 NFBDESC : REF DESCRIPTOR, ! NFB descriptor
: 709 0699 2 P2DSC : DESCRIPTOR, ! P2 parameter descriptor
: 710 0700 2 DUMDSC : REF DESCRIPTOR; ! Dummy table descriptor
: 711 0701 2
: 712 0702 2
: 713 0703 2 Get the NFB and P2 buffer.
: 714 0704 2
: 715 0705 2 NML$GETINFTABS (.ENTITY, NML$C_ZERO, NFBDESC, DUMDSC, 0);
: 716 0706 2 IF .ENTITY NEQ NML$C_NODEBYNAME THEN
: 717 0707 2
: 718 0708 2 Zero executor node or node specified by address in the NICE command.
: 719 0709 2
: 720 0710 2 NML$BLDP2 (0, .(.ADR)<0,16>, -1, 0, NML$Q_P2BFDSC, P2DSC)
: 721 0711 2 ELSE
: 722 0712 2
: 723 0713 2 Zero node specified by name in the NICE command.
: 724 0714 2
: 725 0715 2 NML$BLDP2 (.LEN, .ADR, -1, 0, NML$Q_P2BFDSC, P2DSC);
: 726 0716 2
: 727 0717 2
: 728 0718 2 Initialize message flags and status.
: 729 0719 2
: 730 0720 2 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
: 731 0721 2 NML$AB_MSGBLOCK [MSB$B_CODE] = NML$C_STS_SUC;
: 732 0722 2
: 733 0723 2 Zero the counters for the specified node.
: 734 0724 2
: 735 0725 2 NML$NETQIO (.NFBDESC, P2DSC, 0, 0);
: 736 0726 2
: 737 0727 2 If zeroing the executor node's counters, then the excutor's entity ID
: 738 0728 2 must be returned in the NICE response message. Add it to the message.
: 739 0729 2
: 740 0730 2 IF .ENTITY EQL NML$C_EXECUTOR THEN
: 741 0731 3 BEGIN
```



```

: 742 0732 3      |
: 743 0733 3      |      Add the executor id to the entity buffer.
: 744 0734 3      |
: 745 0735 3      |      NML$GETEXEID (NML$Q_ENTBFDSC, NML$Q_ENTBFDSC [DSC$W_LENGTH]);
: 746 0736 3      |
: 747 0737 3      |      Add the entity id to the message.
: 748 0738 3      |
: 749 0739 3      |      NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
: 750 0740 3      |      NML$AB_MSGBLOCK [MSB$A_ENTITY] = NML$Q_ENTBFDSC;
: 751 0741 3      |      END;
: 752 0742 3      |
: 753 0743 3      |      Build and send the response message.
: 754 0744 3      |
: 755 0745 3      |      NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 756 0746 3      |      NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
: 757 0747 3      |
: 758 0748 1      |      END;
                                ! End of NML_ZERO_NODE
```

```

                                001C 00000 NML_ZERO_NODE:
                                .WORD      Save R2,R3,R4
54 00000000' 00 9E 00002  MOVAB      NML$Q_P2BFDSC, R4      : 0676
53 00000000' 00 9E 00009  MOVAB      NML$Q_ENTBFDSC, R3
52 00000000G 00 9E 00010  MOVAB      NML$AB_MSGBLOCK, R2
5E          14 C2 00017  SUBL2      #20, SP
          7E D4 0001A  CLRL      -(SP)      : 0705
          04 AE 9F 0001C  PUSHAB     DUMDSC
          0C AE 9F 0001F  PUSHAB     NFBDS
          05 DD 00022  PUSHL      #5
          04 AC DD 00024  PUSHL      ENTITY
00000000G 00 05 FB 00027  CALLS      #5, NML$GETINFTABS
          04 AC D1 0002E  CML      ENTITY, #4      : 0706
          12 13 00032  BEQL      1$
          0C AE 9F 00034  PUSHAB     P2DSC      : 0710
          54 DD 00037  PUSHL      R4
          7E D4 00039  CLRL      -(SP)
          7E 01 CE 0003B  MNEGL     #1, -(SP)
          0C BC 3C 0003E  MOVZWL     @ADR, -(SP)
          7E D4 00042  CLRL      -(SP)
          0E 11 00044  BRB      2$
          0C AE 9F 00046 1$:  PUSHAB     P2DSC      : 0715
          54 DD 00049  PUSHL      R4
          7E D4 0004B  CLRL      -(SP)
          7E 01 CE 0004D  MNEGL     #1, -(SP)
00000000G 00 08 AC 7D 00050  MOVQ      LEN, -(SP)
          06 FB 00054 2$:  CALLS      #6, NML$BLDP2
          62 D4 0005B  CLRL      NML$AB_MSGBLOCK      : 0720
          04 A2 01 90 0005D  MOVB      #1, NML$AB_MSGBLOCK+4      : 0721
          7E 7C 00061  CLRQ      -(SP)      : 0725
          14 AE 9F 00063  PUSHAB     P2DSC
          10 AE DD 00066  PUSHL      NFBDS
          04 FB 00069  CALLS      #4, NML$NETQ10
00000000G 00 04 AC D1 00070  CML      ENTITY, #7      : 0730
          07          12 12 00074  BNEQ      3$
```

NML\$ZERO
V04-000

NML_ZERO counters module
NML_ZERO_NODE Zero node counters

J 5
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 28
(11)

00000000G	00	53	DD	00076	PUSHL	R3	:	0735
	62	53	DD	00078	PUSHL	R3	:	
14	A2	02	FB	0007A	CALLS	#2, NML\$GETEXEID	:	
		10	88	00081	BISB2	#16, NML\$AB_MSGBLOCK	:	0739
		63	9F	00084	MOVAB	NML\$Q_ENTBFDSC, NML\$AB_MSGBLOCK+20	:	0740
		AE	9F	00088	PUSHAB	MSGSIZE	:	0745
	08	52	DD	0008B	PUSHL	R2	:	
00000000G	00	02	FB	0008D	CALLS	#2, NML\$BLD_REPLY	:	
		AE	DD	00094	PUSHL	MSGSIZE	:	0746
		00	9F	00097	PUSHAB	NML\$AB_SNDBUFFER	:	
00000000G	00	02	FB	0009D	CALLS	#2, NML\$SEND	:	
		04	000A4	RET			:	0748

; Routine Size: 165 bytes, Routine Base: \$CODE\$ + 02AC


```

: 760 0749 1 %SBTTL 'NML_ZEROREMOTES Zero known node counters'
: 761 0750 1 ROUTINE NML_ZEROREMOTES: NOVALUE =
: 762 0751 1
: 763 0752 1 !++
: 764 0753 1 FUNCTIONAL DESCRIPTION:
: 765 0754 1
: 766 0755 1 This routine zeros the counters for all remote nodes.
: 767 0756 1
: 768 0757 1 SIDE EFFECTS:
: 769 0758 1
: 770 0759 1 Zero or more response messages will be sent.
: 771 0760 1
: 772 0761 1 !--
: 773 0762 1
: 774 0763 2 BEGIN
: 775 0764 2
: 776 0765 2 LOCAL
: 777 0766 2 BUFEND,
: 778 0767 2 DUMDSC : REF DESCRIPTOR, ! Dummy table descriptor
: 779 0768 2 ENTPTR, ! Pointer to node id in response
: 780 0769 2 LENGTH,
: 781 0770 2 LISDSC : DESCRIPTOR,
: 782 0771 2 MSGSIZE,
: 783 0772 2 NFBDESC : REF DESCRIPTOR, ! NFB descriptor
: 784 0773 2 P2DSC : DESCRIPTOR, ! Descriptor for P2 buffer
: 785 0774 2 PTR,
: 786 0775 2 STATUS,
: 787 0776 2 STRTFLG;
: 788 0777 2
: 789 0778 2 ! Get the list of known remote nodes.
: 790 0779 2
: 791 0780 2 STRTFLG = FALSE;
: 792 0781 2
: 793 0782 2 WHILE NML$GET_ENTITY_IDS (NML$C_NODE, NML$C_ENT_KNO, 0, .STRTFLG, LISDSC) DO
: 794 0783 2 BEGIN
: 795 0784 2
: 796 0785 2 STRTFLG = TRUE;
: 797 0786 2
: 798 0787 2 ! Zero counters for all nodes in the list.
: 799 0788 2
: 800 0789 2 PTR = .LISDSC [DSC$A_POINTER];
: 801 0790 2 BUFEND = .LISDSC [DSC$A_POINTER] + .LISDSC [DSC$W_LENGTH];
: 802 0791 2 LENGTH = 2;
: 803 0792 2 NML$GETINFTABS (NML$C_NODE, NML$C_ZERO, NFBDESC, DUMDSC, 0);
: 804 0793 2
: 805 0794 2 WHILE .PTR LSSA .BUFEND DO
: 806 0795 2 BEGIN
: 807 0796 2 PTR = .PTR +4; ! Skip loopnode flag.
: 808 0797 2 NML$BLDP2 (0, .(.PTR)<0,16>, -1, 0, NML$Q_P2BFDSC, P2DSC);
: 809 0798 2
: 810 0799 2 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
: 811 0800 2 NML$AB_MSGBLOCK [MSB$B_CODE] = NML$C_STS_SUC;
: 812 0801 2
: 813 0802 2 NML$NETQIO (.NFBDESC, P2DSC, 0, 0);
: 814 0803 2
: 815 0804 2 ! Move node address and name into entity id buffer and
: 816 0805 2 ! advance pointer.
```

```

: 817 0806 4 !
: 818 0807 4 ENTPTR = CH$MOVE (2,
: 819 0808 4 .PTR,
: 820 0809 4 .NML$Q_ENTBFDSC [DSC$A_POINTER]);
: 821 0810 4 PTR = .PTR + 4;
: 822 0811 4 LENGTH = (.PTR)<0,16>;
: 823 0812 4 CH$WCHAR A (.LENGTH, ENTPTR);
: 824 0813 4 PTR = .PTR + 2;
: 825 0814 4 ENTPTR = CH$MOVE (.LENGTH, .PTR, .ENTPTR);
: 826 0815 4 PTR = .PTR + .LENGTH;
: 827 0816 4
: 828 0817 4 | Add node id to message.
: 829 0818 4
: 830 0819 4 NML$Q_ENTBFDSC [DSC$W_LENGTH] =
: 831 0820 4 .ENTPTR - .NML$Q_ENTBFDSC [DSC$A_POINTER];
: 832 0821 4 NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
: 833 0822 4
: 834 0823 4 | Build and send the response message.
: 835 0824 4
: 836 0825 4 NML$BLD REPLY (NML$AB_MSGBLOCK, MSGSIZE);
: 837 0826 4 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
: 838 0827 4 END
: 839 0828 2 END;
: 840 0829 2
: 841 0830 1 END;
! End of NML_ZEROREMOTES
```

```

OFFC 00000 NML_ZEROREMOTES:
5B 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 0750
5E 1C C2 00009 MOVAB NML$AB_MSGBLOCK, R11
59 D4 0000C SUBL2 #28, SP
14 AE 9F 0000E 1$: CLRL STRTFLG : 0780
59 DD 00011 PUSHAB LISDSC : 0782
7E D4 00013 PUSHL STRTFLG
01 CE 00015 CLRL -(SP)
03 DD 00018 MNEGL #1, -(SP)
00000000G 00 05 FB 0001A CALLS #5, NML$GET_ENTITY_IDS
01 50 E8 00021 BLBS R0, 2$
59 01 D0 00025 2$: RET
56 18 AE D0 00028 MOVL #1, STRTFLG : 0785
5A 14 AE 3C 0002C MOVL LISDSC+4, PTR : 0789
5A 18 AE C0 00030 MOVZWL LISDSC, BUFEND : 0790
58 02 D0 00034 ADDL2 LISDSC+4, BUFEND
7E D4 00037 MOVL #2, LENGTH : 0791
04 AE 9F 00039 CLRL -(SP) : 0792
0C AE 9F 0003C PUSHAB DUMDSC
05 DD 0003F PUSHAB NFBDS
03 DD 00041 PUSHL #5
00000000G 00 05 FB 00043 CALLS #5, NML$GETINFTABS
5A 56 D1 0004A 3$: CMPL PTR, BUFEND : 0794
BF 1E 0004D BGEQU 1$
56 04 C0 0004F ADDL2 #4, PTR : 0796
```


NML\$ZERO
VO4-000

NML_ZERO counters module
NML_ZEROREMOTES Zero known node counters

M 5
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 31
(12)

		0C	AE	9F	00052	PUSHAB	P2DSC		0797
		00000000'	00	9F	00055	PUSHAB	NML\$Q_P2BFDSC		
			7E	D4	0005B	CLRL	-(SP)		
	7E		01	CE	0005D	MNEGL	#1, -(SP)		
	7E		66	3C	00060	MOVZWL	(PTR), -(SP)		
			7E	D4	00063	CLRL	-(SP)		
00000000G	00		06	FB	00065	CALLS	#6, NML\$BLDP2		
			6B	D4	0006C	CLRL	NML\$AB_MSGBLOCK		0799
04	AB		01	90	0006E	MOVB	#1, NML\$AB_MSGBLOCK+4		0800
			7E	7C	00072	CLRL	-(SP)		0802
		14	AE	9F	00074	PUSHAB	P2DSC		
		10	AE	DD	00077	PUSHL	NFBDSC		
00000000G	00		04	FB	0007A	CALLS	#4, NML\$NETQIO		
	57	00000000'	00	D0	00081	MOVL	NML\$Q_ENTBFDSC+4, R7		0809
	67		86	B0	00088	MOVW	(PTR)+, (R7)		
	53	02	A7	9E	0008B	MOVAB	2(R7), ENTPTR		
	56		02	C0	0008F	ADDL2	#2, PTR		0810
	58		86	3C	00092	MOVZWL	(PTR)+, LENGTH		0811
	83		58	90	00095	MOVB	LENGTH, (ENTPTR)+		0812
63	66		58	28	00098	MOVC3	LENGTH, (PTR), (ENTPTR)		0814
	56		58	C0	0009C	ADDL2	LENGTH, PTR		0815
00000000'	00		57	A3	0009F	SUBW3	R7, ENTPTR, NML\$Q_ENTBFDSC		0820
	68		10	88	000A7	BISB2	#16, NML\$AB_MSGBLOCK		0821
		08	AE	9F	000AA	PUSHAB	MSGSIZE		0825
			5B	DD	000AD	PUSHL	R11		
00000000G	00		02	FB	000AF	CALLS	#2, NML\$BLD_REPLY		
		08	AE	DD	000B6	PUSHL	MSGSIZE		0826
		00000000G	00	9F	000B9	PUSHAB	NML\$AB_SNDBUFFER		
00000000G	00		02	FB	000BF	CALLS	#2, NML\$SEND		
			82	11	000C6	BRE	3\$		0794
			04	000C8	RET				0830

; Routine Size: 201 bytes, Routine Base: \$CODE\$ + 0351

NML\$ZERO
V04-000

NML_ZERO counters module
NML_ZEROREMOTES Zero known node counters

N 5
16-Sep-1984 00:41:12
14-Sep-1984 12:50:23

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLZERO.B32;1 Page 32 (13)

: 843 0831 1 END
: 844 0832 1
: 845 0833 0 ELUDOM

! End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	784	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$PLITS	84	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	1050	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	33	9	27	00:00.1
\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	8	0	47	00:00.2
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	2	0	581	00:02.2

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NMLZERO/OBJ=OBJ\$:NMLZERO MSRC\$:NMLZERO/UPDATE=(ENH\$:NMLZERO)

: Size: 1050 code + 868 data bytes
: Run Time: 00:23.1
: Elapsed Time: 00:42.8
: Lines/CPU Min: 2162
: Lexemes/CPU-Min: 15715
: Memory Used: 147 pages
: Compilation Complete

0288 AH-BT13A-SE
VAX/VMS V4.0

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